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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

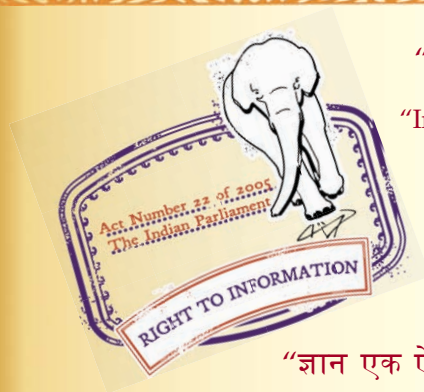
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 3673 (1986): Alkali Resistant Paper [CHD 15: Paper and its products]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS : 3673 - 1986
(Reaffirmed 2010)

Indian Standard

SPECIFICATION FOR
ALKALI RESISTANT PAPER

(*First Revision*)

First Reprint NOVEMBER 1999

UDC 676.248: 620.193.42

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BUREAU OF INDIAN STANDARDS
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AMENDMENT NO. 3 SEPTEMBER 2008
TO
IS 3673 : 1986 SPECIFICATION FOR ALKALI
RESISTANT PAPER

(First Revision)

(Page 4, clause 3.3, read with Amendment No. 1) — Substitute
'Additional Requirements for ECO Mark' for 'Optional Requirements for
ECO Mark'.

(CHD 15)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 2 MARCH 1999
TO
IS 3673:1986 SPECIFICATION FOR ALKALI
RESISTANT PAPER
(First Revision)

(*Page 4, clause 3.2*) — Insert the following new clause after **3.2**:




'3.3 Grammage (Substance) — The nominal grammage of the pulp board shall be as agreed to between the buyer and the supplier. However, when tested as per 6 of IS 1060 (Part 1) : 1966, no single test result shall vary by more than ± 6 percent from nominal grammage. Further, the mean of 10 test results shall not vary from nominal grammage by more than ± 4 percent.'

(CHD 15)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 1 SEPTEMBER 1993
TO
IS 3673 : 1986 SPECIFICATION FOR ALKALI
RESISTANT PAPER
(*First Revision*)

(*Page 3, clause 0.4*) — Add this new clause after clause **0.3** and renumber the subsequent clause:

'0.4 A scheme for labelling environment friendly products known as ECO Mark has been introduced at the instance of the Ministry of Environment and Forests (MEF), Government of India. The ECO Mark would be administered by the Bureau of Indian Standards (BIS) under the BIS Act, 1986 as per the Resolutions No. 71 dated 21 February 1991 and No. 425 dated 28 October 1992 published in the Gazette of the Government of India. For a product to be eligible for marking with ECO logo, it shall also carry the  Mark of BIS besides meeting additional optional environment friendly requirements. For this purpose, the Standard Mark of BIS would be a single mark being a combination of the  Mark and the ECO logo. Requirements to be satisfied for a product to qualify for the BIS Standard Mark for ECO friendliness, will be included in the relevant published Indian Standards through an amendment. These requirements will be optional; manufacturing units will be free to opt for the  Mark alone also.

This amendment is based on the Gazette Notification No. 455 dated 13 November 1992 for paper as environment friendly products published in the Gazette of India. This amendment is, therefore, being issued to this standard to include environment friendly requirements for alkali resistant paper.'

(*Page 4, clause 3.2*) — Add the following new clause after **3.2**:

'3.3 Optional Requirements for ECO Mark

3.3.1 General Requirements

3.3.1.1 The product shall conform to the requirements for quality and performance prescribed under clauses **3.1** to **3.2**.

3.3.1.2 The manufacturer shall produce to BIS, the environmental consent clearance from the concerned State Pollution Control Board as per the provisions of Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 along with the authorisation, if required, under the Environment (Protection) Act, 1986 and the rules made thereunder, while applying for ECO Mark.

3.3.2 Specific Requirements

3.3.2.1 The material shall be of the following two types depending on the raw material used in the manufacture:

- a) *Type A* — Manufactured from pulp containing not less than 60 percent by mass of pulp made from materials other than bamboo, hard woods, soft woods and reed.
- b) *Type B* — Manufactured from pulp made from 100 percent waste paper."

(*Page 4, clause 4.1*) — Add the following new clause after clause **4.1**:

'4.1.1 For ECO Mark, the product shall be packed in such packages which shall be recyclable/reusable or biodegradable.'

(*Page 5, clause 4.2.1*) — Add the following new clause after **4.2.1**:

'4.2.2 For ECO Mark, following additional information may also be marked on the container/package:

The criteria for which the product has been labelled with ECO Mark.'

Indian Standard
SPECIFICATION FOR
ALKALI RESISTANT PAPER
(*First Revision*)

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(Continued on page 6)

Indian Standard
**SPECIFICATION FOR
ALKALI RESISTANT PAPER**
(First Revision)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 28 February 1986, after the draft finalized by the Paper and its Products (Excluding Packaging Materials) Sectional Committee had been approved by the Chemical Division Council.

0.2 Alkali resistant paper is used in the wrapping and packaging of materials which have alkaline reaction, such as soap and alkaline adhesives. As this type of paper is being manufactured in the country, this standard has been formulated to define its quality for the guidance of the manufacturers and to assure supply of proper quality of such paper to the consumers.

0.3 This standard was originally published in 1966. In this revision the requirement of burst factor and tear factor have been replaced by burst index and tear index. The test method on the determination of alkali staining number has been deleted and reference has been made to IS : 1060 (Part 3) - 1969*.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements and methods of sampling and test for alkali resistant paper.

*Methods of sampling and test for paper and allied products, Part 3.

†Rules for rounding off numerical values (*revised*).

IS : 3673 - 1986

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in IS : 4661-1986* shall apply.

3. REQUIREMENTS

3.1 When tested in accordance with IS : 5285-1969†, the furnish shall be free from mechanical pulp.

3.2 The alkali resistant paper shall comply with the requirements given in Table 1 when tested according to the methods given in col 4 and 5 of Table 1.

TABLE 1 REQUIREMENTS FOR ALKALI RESISTANT PAPER

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST, REF TO CL NO. IN	
			IS : 1060 (Part 1) -1966*	IS : 1060 (Part 3) -1969†
(1)	(2)	(3)	(4)	(5)
i)	Burst index, kPa.m ² /g, <i>Min</i>	1.70	12.5	—
ii)	Tear index, m N.m ² /g, <i>Min</i>	6.40	12.7	—
iii)	Alkali staining number, <i>Max</i>	3.0	-	11

Burst index = Burst factor × 0.098; Tear index= Tear factor × 0.098

*Methods of sampling and test for paper and allied products: Part 1 (*revised*).

†Methods of sampling and test for paper and allied products: Part 3.

4. PACKING AND MARKING

4.1 The alkali resistant paper shall be packed securely and suitably as agreed to between the buyer and the supplier.

4.2 Each package shall be marked with the following information:

- Description of the material;
- Substance, in g/m²;
- Number of sheets (in the package) and net mass of the content;

*Glossary of terms used in paper trade and industry (*first revision*).

†Methods of tests for fibre analysis of paper and board.

- d) Batch number;
- e) Month and year of manufacturer; and
- f) Name of manufacturer and trade-mark; if any.

4.2.1 The product may also be marked with Standard Mark.

4.2.2 The use of the Standard Mark is governed by the provisions of *Bureau of Indian Standards Act*, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

5. SAMPLING

5.1 Each package shall be sampled in accordance with **3** of IS : 1060 (Part 1)-1966*.

6. CRITERIA FOR CONFORMITY

6.1 Number of Test — The test shall be conducted as given in IS : 1060 (Part 1)-1966*.

6.2 The lot shall be declared as conforming to the requirements of this standard if all the test results meet the relevant requirements.

*Methods of sampling and test for paper and allied products, Part 1 (*revised*).

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